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| Level 1 micro mol How small is small?  Choose one of the following activities.  The number 6.02 X 10 23 or Avogadros number is used extensively in Chemistry.  It is often said that a mole of a chemical is the amount of that chemical that you can hold in your hand. A mole is equivalent to 6.02 X 10 23  particles.  In order to comprehend its magnitude you will examine some problems that test your powers of understanding. Choose **one** of the activities below to work with. Your work will be due **one week** after the date you are assigned this activity.  1. If you covered Canada’s land mass with 6.02 X 10 23 golf balls(or some other round object), how deep would the layer of golf balls(or some other round object) be?  2. Suppose you put 6.02 X 10 23 five- dollar bills end to end. How many round trips from Earth to the Moon would they make?  3. What is the mass of 6.02 X 10 23 apples? How does this compare with the mass of the earth?  4. How many planets would we need for 6.02 X 10 23 people, if each planet’s population were limited to the current population of earth?  Details: Use print and internet resources to find the required information for your problem. You may also find your information empirically (for example measuring a mass or length). Solve your problem with your information and present it in a unique way. This could be in the form of a banner, poster, song, storybook, cartoon, scientific paper or anyway that you think of.  Evaluation: Please include a list of data, references, and a fully worked solution to the problem. You will be marked on clarity, thoroughness, creativity and presentation.  Due date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_have decided to pick choice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and agree to complete the above task by the due date written above.  Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (please print) |

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